Liberty 443 36volt

Liberty Mountain Bike

User Manual

Thank you for your decision in buying this product.

⚠ Please use this product according to the instructions.
Please keep the instructions in the visible place.

Liberty 443 Electric Mountain Bike
36 Volt (Lead Acid or Ni-MH)

Introduction

Dear Customer,

Wow! You are excited! You have just received your brand new ebike! We too are excited, because as designers and developers of our bikes, we love to make you happy, and we believer your new ebike will give you lots of fun. I know you want to get this bike on the road immediately, but **please STOP!**

Why? Well, first of all, you need to charge your batteries fully before using it. So, while your ebike is charging, take the time to read this manual. We have worked hard to make it as readable and fun as possible! This manual will help prevent injury and teach you how to care for your new ebike.

- It is the Owner's responsibility to carefully read all of the contents of this manual and to comply with all laws pertaining to the operation of bicycles and/or electric bicycles in your local jurisdiction. If you have any questions please consult with the Laws web page on **www.iloveebikes.com** or consult your local department of motor vehicles for clarificiation.
- These electric bikes are not classified as motor vehicles, however, to drive them on the roads, various states have differing laws.
- We have worked hard to provide you a quality product, well designed, and without defects. That is our responsibility. You too has a part to play…with proper care and maintenance and attention to bicycle safety rules, it will give you years of enjoyment.
- Please read the instructions carefully before using. Do not ride this bicycle until you have read and thoroughly understand the owner's manual. It contains information critical to your safety. If you have questions about the operation of this electric bicycle, consult your authorized dealer. It is extremely important that you follow the safety guidelines contained in this manual in order to ensure your maximum safety. If you loan your bike to anyone make sure they also know how to operate it safely.
- When using, the load should not be greater than the maximum capacity, and please pay attention to increase the braking distance during rainy or snowy days.
- This E-bicycle is not afraid of the rain and snow, but it can't be submerged in water. It will cause short circuit and damage to the electric apparatus, when water submerges the rear wheel electronic hub,
- The exposed metal contact on the battery box is positive and electronegative electrode, can't be touched at the same time with wet hands, also it can't be kept in touch with anything metal at the same time, otherwise it will cause short circuit and accidents!
- **Please don't dismantle and repair the spare parts by yourself, please go to the local distributor or the servicing station to repair if necessary.**

- Please take time to record the following information:

Recording Your Serial Number

VIN: _____

Model: _____

Color: _____

Date of Purchase : _____

Distributor : _____

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I m p o r t a n t Instructions

- Safeguard your battery to insure continued high performance. It should be recharged after each use. The normal full-cycle battery life if it is continuously discharged and re-charged is about one year or 300 cycles or recharges, after which the storage capacity of the battery will gradually decline. If it is not fully discharged and is recharged regularly, the service life of the battery will be at its maximum. The batteries supplied are a top quality Maintenance Free Sealed Lead Acid Batteries specifically designed for this vehicle.

CAUTION! Fully charge the batteries before the first use!

- Failure to do this can result in decreased battery performance for the life of the bike. Fully charge the battery each time you use the bike.
- Battery performance is affected by the temperature, and is generally better in warm temperatures. When the temperature is below 32 F (0 C) the battery current may decrease by a third. Consequently the travel range on a full charge in cold environments is much less, but will return when the temperature is back to room temperature again.
- Frequent braking and starting, riding uphill, traveling against a strong wind, starting from a standstill and riding on rough or muddy roads, and carrying more than one person, or heavy loads will consume extra battery power and shorten the range. A few tips to prolong the battery life during these conditions is as follows:
  - Frequent Braking – try to look ahead and coast rather than stop and go frequently
  - Riding uphill or against a stiff wind – pedal to supliment the battery power
  - When starting from a standstill – use the pedals to help bring you up to speed.
  - When the battery meter indicates the voltage is low, switch to manual power and avoid using the battery so you don't shorten the battery life.
  - If the battery is being stored, remove the battery from the bicycle and recharge it every month.

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Always Turn off the motor and remove the key from the ignition before and during charging to prevent serious damage to the controller and to the batteries!

- This electric bicycle can be used in the rain, however, **it must not be submerged in water or puddles.** The controller, motor and other electrical devices may be short circuited, causing damage and created possible dangerous situations.

DO NOT use chargers or other components other than that which has been approved and tested by this company. This company is not responsible for damages caused by the use of other products not specifically designed and tested for use with this electric bike.

- **Battery Chargers** contain sensitive electronics. Improper use, dropping, or sudden jolts can damage the charger and its internal electronics.

Parts Locations

1. 443 Mountain E-bicycle
2. Front
3. Front Mudguard
4. Pedal

Assembling of the Front Tire

•Put the front wheel into the front fork.

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•Fasten the front mudguard.

Assembling the Front Tire

•Fasten the hubs, paying attention to the position of the washer and disc brake.

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Installing the Pedals

•Note the left and right of the pedal.
[L] left [R] right
Attention: The threads will be stripped if you mistake the left and right pedal, and they won't be able to be properly fixed. (Misapplication is not covered by warranty.)

•Screw the pedal in until its in all the way, and tighten it fully.

Safety Precautions

•Before operating your bicycle inspect it carefully to avoid accidents or damage.

• Do not drive close to other vehicles

• ALWAYS keep the power switched OFF until you are seated on the bike and ready to ride. Turning the power on and then accidentally twisting the throttle can result in the bike lurching forward and cause a possible accident, damage, or injury.

• NEVER attempt to disassemble the motor, battery, controller or throttle. This can result in injury fire, or damage to the bike.

• ONLY use the charger supplied with your bike to charger the battery. Using the improper charger can result in fire or explosion.

• KEEP the batteries out of the reach of children.

• Obey all traffic laws relevant to the operation of bicycles and electric bicycles.

• Use the turn signals at all times when making turns.

• KEEP both hands on the handlebars at all times.

• DO NOT hang objects on or under the handlebars

• DO NOT brake suddenly in the rain or on slippery wet surfaces.

• USE extreme caution when near other vehicles. Assume they do not see you, and be careful at intersections

and when starting from a stopped position.

- When cleaning your electric bike, do not use a steady direct stream of water form a hose. Use a cloth to avoid short circuiting any electrical components. Your electric bike has a durable finish and does not need waxed. Clean with a mild detergent and buffing to restore its original shine.
- Please wear a safety helmet and glasses for your own protection whenever riding.
- Wear bright clothing to help make you visible to other motor vehicles.
- Do not wear loose clothing that can become caught on the bicycle.

Operating Instructions

BEFORE YOU RIDE

First check to see that the battery is fully charged before riding; Check the air pressure of the tires (45 – 50 psi); Check the front and back brakes and the condition of the front and back wheels, handlebar, and saddle. Make sure they are tight and fastened. Make sure all quick releases are locked and secure and all parts are in good working order. Inspect your bike completely.

1. If it was removed, install the charged battery in the battery seat of bike and lock it.
2. Raise the kickstand.
3. While seated on the bicycle, insert the ignition key into the switch, and turn it to ON position. The light comes on showing that electric is being used when the power is on. (Note: The Red POWER button on throttle handle has no function). The throttle on the right hand will begin to accelerate the bike when it is turned counterclockwise.

Attention: After the key is on, if the rider hits the throttle the vehicle will lurch forward! Do not turn ON until you are ready to move forward!

As the vehicle starts, accelerate slowly, don't try to get to your maximum speed quickly, lest you should damage the electric components.

The hand brake will automatically cut the power to the motor as also will releasing the throttle. However, you should still avoided attempting to use the throttle when the brakes are being applied. so you don't overload the motor overload of the motor.

While starting or climbing, pedal as much as possible, so that the electric power will not be drained too much.

At the same time, it can lengthen the life of battery and motor if you help with pedaling.

The normal specified load of the Electric Bicycle is 220 lbs, with a maximum of 300 lbs.

While running, if the battery power is getting low, the battery indicator light will darken one by one to only one light. At this time you should pedal your ebike like a regular bike and charge the battery as soon as you get to an electrical outlet.

Turn off the power and remove the key, while parking.

The switch of the electricity should be turned off when pushing, so you don't by accident turn the throttle, making the Electric Bicycle start suddenly and cause accidents.

To help get the best distance out of your electric bike, refrain from much braking and coast as much as possible.

Battery Charging

It is important that you charge your batteries after every use. This will extend the total life of your battery. Once the charger has indicated that your battery is fully charged, unplug the power source from the bicycle and the electrical outlet and store in a cool dry place. Do not leave the charger plugged into the battery for long periods of time, as this can damage the batteries. Normally you can recharge fully in 4 – 5 hours.

Turn the key to OFF and remove the key.

Insert plug of the charger into charging socket of the battery box.

Insert the charger into the wall outlet. A red light will come on. It will take about 5-6 hourse to recharge the battery completely On most chargers, a green light will appear when fully charged.

When the light turns from red to green, it indicates that the battery is full. If possible, charge for and additional 2- 3 more hours from.

Do not charge for more than 10 hours to avoid overcharging and damaging the battery. After the green light comes on, the charger is in trickle electric current and " fill slowly " and maintain the state. If you will be gone, for many hours you should unplug the charger. This is especially true in hot weather. Avoid overcharging and damaging the battery .

The charger will be come warm during charging, so keep charger away from any flamable materials. The charger may reach 85 degrees C during normal charging.

You can also charge the battery when it is removed from the bicycle. This is especially convenient during cold nights or when your bike is not parked near an electrical outlet.

Because specifications of the charger may change in the process of production, please read the charger manual in detail before using.

Always charge he bike in a dry and clean place. Keep the charger dry and clean. The charger will become warm during charging, but this is normal operation.

Precautions while Charging the Batteries

Using your power source incorrectly or leaving the charger connected to the bicycle and an outlet for extended periods of time can result in a fire.

Always use the charger according to the instructions.

Do not use any charger other than the one that came with your Liberty Electric Bike. If you need another charger, call the Customer Service Center and order another one.

Do not attempt to open or repair your charger. . The electronics contain high-pressure circuit, so please don't dismantle by yourself.

Avoid any contact with water when charging your battery. If a plug or socket gets wet, dry it completely before using.

Do not touch the two poles of the battery with your hands when the battery is removed for charging. Also the two battery poles cannot be touched with any metal or other material that conducts electricity.

While charging, please keep it out of reach of children.

Prevent liquid, metal and metal fillings to permeate charger when use, and be careful from dropping and having anything hit it, so as not to cause damage.

Do NOT put anything on top of the charger while charging. It must be well ventilated to allow all the heat generated to dissipate.

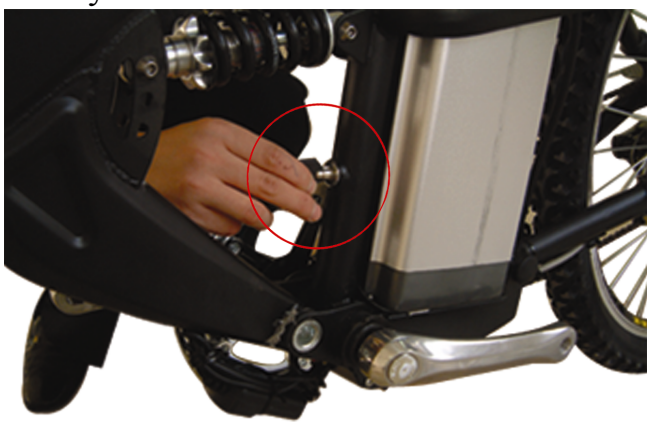
When charging, if there is a peculiar smell or the temperature is too high, please stop charging immediately and send to the local distributor or to the Customer Service Center (800) 806-7109.

•Insert the plug of the charger into the socket of the battery, and then insert the other plug into an outlet. (The battery can be taken away from the bike to charge if more convenient.)

The following process is explaining how to disassemble the storage battery:

1) Pull up the latch under the seat, and the seat will open.

2) Open up the lock with the key in the cell box.



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3) Unplug the battery.

(Ni-MH battery will have an XLR connector to the electronic controller, not the 3- prong connector as the Lead Acid model)

4) Pull the storage battery from the e-bike.

5) Insert the charger's plug into the socket of the battery.

Charging Method

•Put the female plug of the charger into charging socket of the battery box.

•Insert the male end of the plug into the outlet. The power is on when the indicator lamp of the charger is on. It is charging when the indicator light is red. When the light turns from red to green, the battery is full. Fill for about 2 hours after the light turns green. After the green light is on, the charger is in "trickle charge" and will charge slowly and maintain the charge. It will not harm the battery if you leave it plugged in a whole day. For safety and for long battery life, unplug the battery if you are going to be gone for more than a day.

•Please read the charger manual in detail before using the charger.

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Precautions

•The two poles of the battery shouldn't be touched with hands, when the battery is removed to recharge. Also, don't touch the poles with any metal object, so as to avoid a short circuit and/or an accident.

•While charging, put the battery in a secure place where children can't reach.

•Don't use another brand of charger to charge the battery.

•The electric apparatus contains a high-pressure circuit, so please don't dismantle by yourself.

•Prevent liquids, metal and metal filings from permeating the charger, and be careful to not drop or hit the charger which could cause damage.

•Make sure not to put on any article on the charger while charging. Please use in a dry and ventilated environment.

Methods for Riding

•When charging, if you smell a peculiar smell or the temperature is too high, stop charging immediately.

•If the battery isn't used for a long time, it should be charged once per month. This will ensure the battery life. DO NOT use in the state of low battery level.

•The charger will produce heat [less than **185°F** (85°C)] in the course of using, so keep more than 16 inches (0.4 m) from any flammable articles while using.

•It is normal that the mileage capacity will reduce as a result of low temperature in the winter.

•While carrying the charger, DO NOT bump, drop, or damage, otherwise it may result in failure.

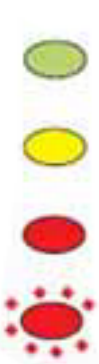
•**DO NOT** use the electric bike not fully charged.

•Key location

•The power-supply is in “off” position.

•The power supply is in “on” position, and there’s no difference between A and B. ON and Light are both wired the same on most models. If your Mt. Ebike has a separate light switch, then ON and LIGHT are the same).

About the Battery Capacity



FULL—enough power

HALF—half power

EMPTY—no power and please charge

POWER BUTTON IS NOT FUNCTIONAL

Ni-MH Charging

•Insert the charger's plug into the socket of the battery. The charging time is between 6-8 hours, and the first charging time is 8 hours or more.
•It is charging when the indicator light is red.
•When the green light turns on, the battery is fully charged. Go on charging for another 1-2 hours.

During charging the light is red, and when finished charging, the light will turn green.

RIDING TIPS

Before riding check to make sure the battery is fully charged, that the air pressure in the tires is normal, and make sure the front and back brakes are working properly. Check the tightness of the front and back wheel, handlebar and that the seat is fastened tightly enough.

It is best to accelerate slowly not getting to maximum speed instantly. This would stress the electric components. The hand brake slows the bike both mechanically with the disc brakes and electric power to the motor stops as well to stop the bike.While starting or climbing, pedal as much as possible so that the battery power will not drain quickly. Also, pedaling can lengthen the life of the battery and motor.

If the battery indicator shows low or if the light shows a dark light and blinks to a bright light, you should begin to pedal, and then charge your battery.

Shut the power “off” and take out the key while parking. Also, the electric switch should be turned “off” when pushing so that you don’t turn it on by accident, making the electric bike start suddenly and cause an accident.

MAINTENANCE

Wheels :Wheels should be centered in the fork or dropouts. If you hear any irregular noise from the wheels or brakes, the wheels should be checked and repaired. Regularly check the spokes of the wheels for tightness and rim alignment. The wheels should rotate smoothly without wobbling from side to side. Check the bearing play of the hubs by lifting the bicycle and spinning the wheel, It should continue to spin for several turns after your stop spinning. To check the play of the hubs try to move the rim from side to side between the forks. No substantial play should exist. If you detect play or if the wheel is difficult to turn, the bearings must be adjusted or replaced. Please contact a local bicycle dealer to have the hub bearings adjusted or call 800-806-7109 for new bearings.

Throttle: Your throttle is on the right hand side of your handlebars. It is a variable speed throttle. To increase the speed, turn the throttle towards you (counterclockwise) while seated on the bike. There is an automatic SHUT OFF of the throttle on the brake levers. Every time the brake lever is pressed, the power from the motor is discontinued.

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Rims: The rims should be smooth and without cracks, breaks or bulges

Spokes: Check the tension of the spokes regularly. About the same tension should be on all the spokes. If there is some minor loosening of the spokes, you may tighten the nipples, but it is recommended that you take it to a bicycle mechanic. If there is a loose spoke or if the rim has side play of more than 1/8" (4mm), immediately have the wheel trued by a bicycle mechanic or call (800) 806-7109. Riding with loose spokes may cause the wheel to fail!

Tires: Inflate your tires to the pressure embossed on the sidewall before use of your new bike. It is recommended that the tire pressure for your Liberty Electric Bike is at least 40 psi. Every time you ride, make sure the tires are inflated according to the pressure on the sidewall. Improper tire pressure will make riding more difficult, cause excessive wear, and premature failure of the tire. The tire should be properly seated in the rim and the fitting of the tire bead and rim bead should be checked. If the tube is pinched between the rim and the tire, it will fail when inflated. Make sure that the tire is not cracked or worn unevenly. Check for bulges. Check and make sure that the valve stem is straight in the rim. Irregular tires should be replaced immediately.

Handlebar and Display: We have created the handlebar display so that you can easily see it while riding. To straighten the handlebars, turn the stem binder bolt to loosen it and straighten the handlebars so they are

straight with the front wheel. Tighten it when it is straight. Loose or damaged grips on your handlebars are dangerous! If your grip comes off you could lose control of your bicycle.

Brakes: Riding with brakes that are worn or damaged, or with worn cables or wheels in poor condition may result in losing control of your bicycle. Wet weather may hinder the brake performance. You need more distance to safely stop in the rain or in a wet or icy street. Before each ride, check to make sure your brake cables are free of obstacles, and are working properly before operating your vehicles.

Power On/Off is with the key. It has OFF/ ON/ and LIGHT positions. When the key is turned to ON the battery display is turned on, and when the key is turned to LIGHT, the lights are on. Models with a separate light switch have the same function in the ON/LIGHT positions.

Batteries/Fuse: Your 36v bike has 3 12volt batteries hooked up in a series. These are in a protective case with a handle to enable you to easily take these on and off your bike. There is a locking key to lock these batteries on your bike to discourage theft. Do not attempt to open any of these Sealed Lead Acid batteries in any way! Doing so may cause chemical, electrical, and/or fire hazards. If you have no power you can remove the 4 screws at the top of the battery box and check the fuse inside the top of the battery box.

Change lubricating grease of the front axle, backshaft and pivot etc. once every three months. which are cleared up.

Have the engine oil after the roller chain is washed with the petrol every three months.

Pour a small amount of engine oil every half a year into the brake pipe.

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GENERAL PROBLEMS AND SOLUTIONS

Problem	Solution
You turn the switch to “ON” position, when indicator lamp all on, turning the handlebar, but the E-bike does not work.	1. Check whether the battery and battery box seat are lined up, and whether the battery box is locked. 2. Check the fuse (inside top of battery box). The motor doesn’t rotate, if the controller fuse burns. Revolve the fuse and change with the same specified melting core (15A).
The switch is turned to “on” position; the e-bike starts when haven’t turned the timing handlebar.	Check whether the throttle releases to the home position. Lubricate or replace if faulty.

After pausing, the vehicle does not start, while the handlebar is turned.	Check whether the brakes are stuck.
The travel speed is partial and slow.	See if the throttle can be opened fully, check to see if the battery is fully charged.
You connect the power when charging, but the indicator lamp is not bright.	Check whether there is electricity to the charger, also if you have a meter you can check to see if charger functions correctly.
While charging, you insert the plug into the electric socket, the yellow light of the charger on.	Check whether the plug end of the charger has been inserted properly.
If all above mentioned situations are normal, then there is some other problem. Please call your local Liberty Bike distributor or send it to consumer service departments or the special distributor's place of our company to be repaired by professional personnel.	

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Warranty

With normal care and recommended maintenance, this electric bicycle is warranted to be free of defects in materials and workmanship for the following period of time:

3 months – electronic controller, charger, battery, and throttle
6 months – hub motor

We will repair or replace, at our option, any product or part that is defective in material or workmanship, without charge if the product is presented to us at our authorized Liberty Electric Bike Service Center at 1-800-806-7109, with dated proof of purchase inside of warranty period.

This limited warranty does not cover the normal wear of items such as tires, brakes, chains, and other items.
All implied warranties are limited to the stated time period.

Liberty Seamless Enterprises, Inc., Liberty Electric Bike Company, and any of its subsidiaries will not be liable for any incidental or consequential damages.

This limited warranty gives you specific legal rights, and you may have other rights from state to state.

This warranty applies to normal consumer use of the product. Use in a rental fleet, commercial setting, or government fleet will void this warranty. Inappropriate use such as trick riding, abusinve riding or off road riding, will void the warranty.